### **Maryland Historical Trust**

C

Maryland Inventory of Hist	toric Properties number: $AA-2/23$ ,	
Name: #2067/1	1D794 OVER GALLOWAY CRIC	*.

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

Eligibility Recommended	MARYLAND HISTO			lot Re	comm	endedX_	
Criteria:ABC _	D Considerations: _	AB	c_	D _	E_	FG	None
Comments:			···		**·····		
			· · · · · · · · · · · · · · · · · · ·				
Reviewer, OPS:_Anne E. Bruder_			Date	e:3 .	April :	2001	
Reviewer, NR Program:Peter E.	Kurtze		Date	e:3 .	April 2	2001	

## MARYLAND INVENTORY OF HISTORIC BRIDGES HISTORIC BRIDGE INVENTORY MARYLAND STATE HIGHWAY ADMINISTRATION/MARYLAND HISTORICAL TRUST

MHT No. A.	Α-	-21	23
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SHA Bridge No. 2067 Bridge name MD 794 over Galloway Creek
LOCATION: Street/Road name and number [facility carried] MD 794
City/town Waysons Corner Vicinity
County Anne Arundel
This bridge projects over: Road Railway Water X Land
Ownership: State X County Municipal Other
HISTORIC STATUS:  Is the bridge located within a designated historic district? Yes NoX
National Register-listed district National Register-determined-eligible district Other Name of district National Register-determined-eligible district National Register-determined-eligible district Name of distric
BRIDGE TYPE: Timber Bridge: Beam Bridge: Truss -Covered Trestle Timber-And-Concrete
Stone Arch Bridge
Metal Truss Bridge
Movable Bridge: Swing: Bascule Single Leaf Bascule Multiple Leaf Vertical Lift Retractile Pontoon
Metal Girder:  Rolled Girder Rolled Girder Concrete Encased  Plate Girder Plate Girder Concrete Encased
Metal Suspension
Metal Arch
Metal Cantilever
Concrete X :  Concrete Arch Concrete Slab X Concrete Beam Rigid Frame Other Type Name

		•		NA-212
<b>DESCRIPTION:</b>				
Setting: Urban	Small town	Rural _	X	
Describe Setting:				
Bridge No. 2067 caries MD	794 over Galloway Creek in	Anne Arundel Co	ounty. MD	794 runs east-
west, while Galloway Creek	flows northeast to southwe	est. The area arou	ind the bric	lge is partially
developed and has wetland	s to the west and forested la	and to the north.		
Danish - C	J. C. J. A			
Describe Superstructure an		C		
Bridge No. 2067 over Gallov	vay Creek in Anne Arundei	County is a two sp	an standard	i concrete slab
bridge built in 1924. Span I	tengths are 20 and the clear	r roadway width is	24'-6" bety	ween concrete
parapets. The concrete abu	itinents are approximately	io in neight and t	he pier is a	1 2' wide solid
shaft. The superstructure, c	onsisting of the slab, the roa	adway, and the pai	apet, is in	a deteriorated
condition. The deck wearing	g surface has many cracks an	id the shoulder are	eas have no	asphalt riding
surface. The south shoulded	or Span #1 has a 6" x 10"	opening along th	e parapet.	The concrete
underdeck has heavy transve	rse and longitudinal crackin	g with neavy efflor	escence thr	oughout. The
west side of the deck in Sp	an #1 has patched areas wi	nich now have ran	idom bracii	ng and hollow
sounding areas. The east si	de of Span #1 has spanning	the full length tha	t is 3" deep	with exposed
rebar. The bridge is posted	lat 38,000 lbs for single uni	is, and 80,000 for	combinatio	on units.
The naranets on both sides	of the bridge are not summe		M	. 1 . 1
The parapets on both sides	of the bridge are not suppo	rung members. 1	ney are no	t load bearing
and rest upon the slab. Thes	se parapets are considered C	DE's to concrete s	siabs. They	represent the
transition between the pane	sied design and pierced. Be	eginning in 1928, .	Maryland u	ised a pierced
railing with 13 open space to	the 1070s although no re	s discussed above,	the origina	al parapets on
Span #1 were replaced in Currently both parapets are	misaligned at the pier. The	west side is out 3/	ocument to	le exact date:
by 4". In addition, both par	anets are spalling on the so	west side is out 3/4	and the e	east side is out
by 4. In addition, both par	apets are spanning on the so	outil elia.		
The substructure consists of	of abutments winowalls and	d niers. The wes	tern ahutm	ent is in fair
condition with the northwest	wingwall having a horizonta	d picis. The wes	eets the slal	h The stream
runs directly along this abut	ment but the member show	s no sion of scour	damage T	the solid shaft
pier is in fair condition. Th	e outside edges show signs	of water damage v	with the soi	ith sides have
efflorescence on the surface	. The east abutment is in po	or water damage to	to both wir	nowalls havino
cracks and spalls at the conf	nection with the slab. The	northeast wingwal	l has been	sheared off at
the top.			i nas coon .	oncarea on at
Discuss Major Alterations:				
The structure's second span	has moved 1'-4" due to high	water. The parag	ets have sh	ifted 3 1/2" to
the south. Its damage was c	aused by Hurricane Agnes i	n 1972. The distri	ct repaired	the damaged
bridge by widening Span #1	with a rolled beam and rep	lacing the misaligr	ned parapet	ts on Span #1
with new ones lining up Spa	in #2's parapets.	· ·		•
The bridge had solid panelle	d parapets on either side wh	ich were designed	using pre-1	928 standards
(the new parapets laid in th	e 1970's mimic the earlier of	lesign).		
		-		
<u>HISTORY:</u>				

County bridge files/inspection form X

Estimated

Design plans \_\_\_\_

WHEN was the bridge built (actual or date range) <u>1924</u>

This date is: Actual X

Other (specify)

Source of date: Plaque \_\_\_\_\_

WHY was the bridge built? Increased load capacity.

WHO was the designer? State Roads Commission

WHO was the builder? State Roads Commission

WHY was the bridge altered? Extension of bridge's life.

WAS this bridge built as part of organized bridge-building campaign? Yes, post World War I improvements to secondary roads.

### **SURVEYOR/HISTORIAN ANALYSIS:**

This bridge may have	National Registe	r significance	for its	association	with:
A - Events	B- Person	_			
C - Engineerin	g /architectural c	haracter			

This bridge does not have National Register significance.

Was the bridge constructed in response to significant events in Maryland or local history?

Reinforced concrete slab bridges are a twentieth century structure type, easily adapted to the need for expedient engineering solutions. Reinforced concrete technology developed rapidly in the early twentieth century with early recognition of the potential for standardized design. The first U.S. attempt to standardize concrete design specifications came in 1903-1904 with the formation of the Joint Committee on Concrete and Reinforced Concrete of the American Society of Civil Engineers.

Maryland's roads and bridge improvement programs mirrored economic cycles. The first road improvement of the State Roads Commission was a 7 year program, starting with the Commissions establishment in 1908 and ending in 1915. Due to World War I, the period from 1916-1920 was one of relative inactivity; only roads of first priority were built. Truck traffic resulting from war related factories and military installations generated new, heavy traffic unanticipated by the builders of the early road system. From 1920-1929, numerous highway improvements occurred in response to the increase in Maryland motor vehicles from 103,000 in 1920 to 320,000 in 1929, with emphasis on the secondary system of feeder roads which moved traffic from the primary roads built before World War I. After World War I, Maryland's bridge system also was appraised as too narrow and structurally inadequate for the increasing traffic, with plans for an expanded bridge program to be handled by the Bridge Division, set up in 1920. In 1920 under Chapter 508 of the Acts of 1920 the State issued a bond of \$3,000,000.00 for road construction; the primary purpose of these monies was to meet the state obligations involving the construction of rural post roads. The secondary purpose of these monies was to fund (with an equal sum from the counties) the building of lateral roads. the number of hard surfaced roads on the state system grew from 2000 in 1920 to 3200 in 1930. By 1930, Maryland's primary system had been inadequate to the huge freight trucks and volume of passenger cars in use, with major improvements occurring in the late 1930's. Most improvements to local roads waited until the years after World War II.

When the bridge was built and/or given major alteration, did it have a significant impact on the growth and development of the area?

Although built following the first World War post construction phase this bridge did not greatly effect the area surrounding it. The structure did not increase settlement or industry.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from historic/visual character of the potential district?

No, this bridge is not located in an area which is eligible for historic designation.

Is the bridge a significant example of its type?

No, this structure is not a significant example of type. The character defining elements are either in a deteriorated state or they are not present in their original form.

Does the bridge retain integrity of important elements described in Context Addendum? No, this structure does not retain the integrity of its original design because it has been widened and its character defining elements have been replaced.

Is the bridge a significant example of the work of a manufacturer, designer, and/or engineer and why?

No, this bridge is not a significant example of the work of the State Roads Commission.

Should the bridge be given further study before an evaluation of its significance is made? No, this structure should not be given further study. Although it reflects the state's post war construction needs of expanding secondary roads system, its current condition has placed its integrity in doubt.

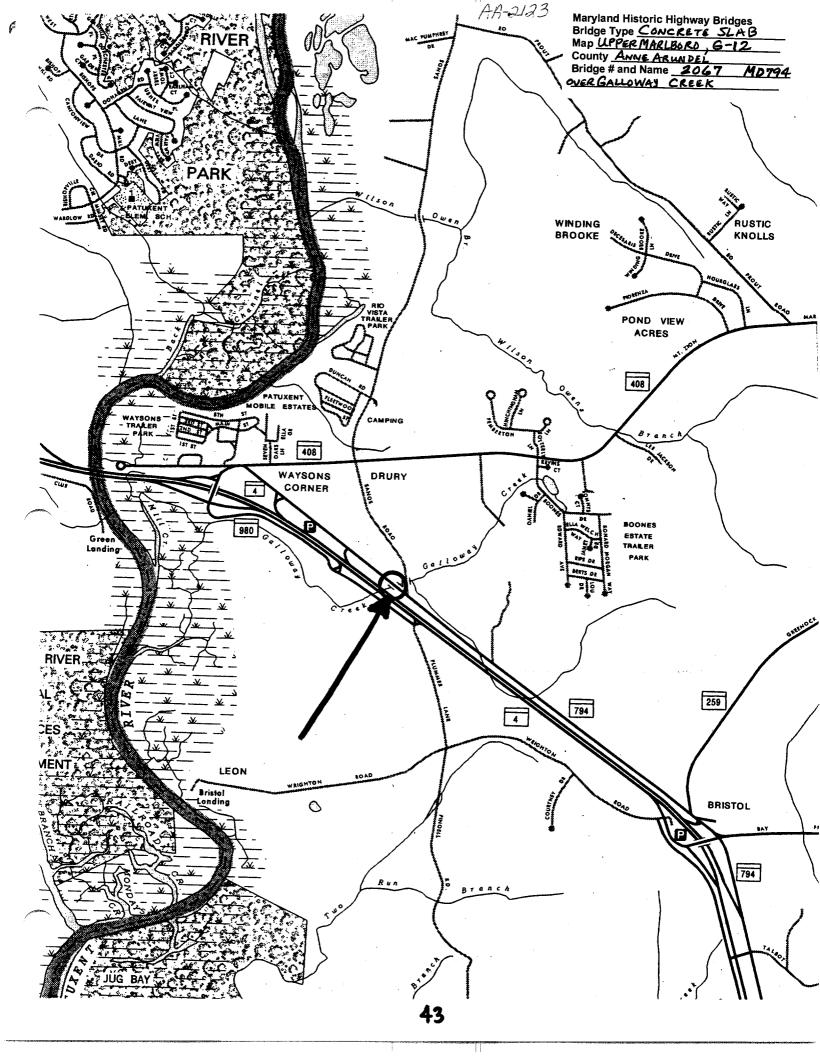
### **BIBLIOGRAPHY:**

Spero, P.A.C. & Company, and Louis Berger & Associates, "Historic Bridges in Maryland: Historic Bridge Context" September 1994.

State Roads Commission Report, 1917-1928.

**SURVEYOR/SURVEY INFORMATION:** 

D 4 1 11 1 1 1	0.14.1.10.5
Date bridge recorded	8/11/95
Name of surveyor <u>Tir</u>	nothy J. Tamburrino
Organization/Address	P.A.C Spero & Company, 40 W. Chesapeake Avenue, Suite 412, Baltimore
Maryland 21204	
Phone number 410-20	06-1635 FAX Number 410-296-1670





AA-2123 MD794 OVER GALLOWAY CHEEK (2067) Anna DEUNUEL COUNTY 7im TAMBUKKIND 8/11/45 South Approach: view Licking NORTH

1 of 4 NEC. #9



AA-2123 MUTTA OVER GALLOWAY Creek (2067) Anne Arundel Courty Tim Jamburrino 8/11/95 NORTH Approach; View LOOKING SOUTH

2014

NIG # 10



AA = 2123 3 MD794 OVER GALLOWAY Creek (2067) Anne Arundel County Tim JAMBURRINO 8/11/95 NEST ELEVATOR; View LOOKING SE 3 of 4

Neg #11



AA-2172 MO 794 OVER GALLOWAY GREEK Anne Arunael County Tim TIMBULKINE 8/11/25 WEST PARAPET view LOUENDWEST 4 04 4 NEB. #12

### INDIVIDUAL PROPERTY/DISTRICT MARYLAND HISTORICAL TRUST INTERNAL NR-ELIGIBILITY REVIEW FORM

Property/District Name: Bridge #2007 Survey Number: AA-2123
Project: Replace Bridge #2067, MD 794 over Galloway Creek Agency: FHWA/SHA
Site visit by MHT Staff: X no yes Name Date
Eligibility recommended Eligibility not recommended _X_
Criteria: XA BXC D Considerations: AB CD D E F G None
Justification for decision: (Use continuation sheet if necessary and attach map)
Based on information prepared by SHA, Bridge #2067, located near Waysons Corner in Anna Arundel County, does not appear to meet the National Register Criteria for individual listing. The bridge was determined "not eligible" at the September 21, 1995 meeting of the SHA/MHT Review Committee for the bridge inventory. The 1924 two span concrete slab bridge was constructed according to design standards issued by the State Roads Commission and is similar to numerous bridges throughout the state. It was constructed during the state's "Good Roads Movement" (c. 1890-?), but has no particular connection to this long-lived general improvement effort. In addition, the bridge does not retain sufficient integrity to meet either National Register criteria A or C. The bridge was damaged in Hurricane Agnes in 1972. Subsequent repairs included widening Span No. 1 with a rolled beam and replacing balustrades on Span No. 1. The bridge is not located in any known historic district.
Documentation on the property/district is presented in: AA-2123 and Project file
bocumentation on the property/district is presented in
Prepared by: Stacie Webb, SHA
Elizabeth Hannold September 28, 1995
Reviewer, Office of Preservation Services Date
NR program concurrence: yes no not applicable
Agr. 28, 1995 Reviewer, NR program Date
Reviewer, NR program / Date

Aug.

Survey	No.	AA-2123	

### MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA - HISTORIC CONTEXT

I.	Geographic Region:	
X	Eastern Shore Western Shore	(all Eastern Shore counties, and Cecil) (Anne Arundel, Calvert, Charles, Prince George's and St. Mary's)
	Piedmont ·	(Baltimore City, Baltimore, Carroll, Frederick, Harford, Howard, Montgomery)
	Western Maryland	(Allegany, Garrett and Washington)
II.	Chronological/Developmental Pe	eriods:
	Paleo-Indian Early Archaic Middle Archaic Late Archaic Early Woodland Middle Woodland Late Woodland/Archaic Contact and Settlement Rural Agrarian Intensification Agricultural-Industrial Transi Industrial/Urban Dominance Modern Period Unknown Period ( prehistor	A.D. 1930-Present
III.	Prehistoric Period Themes:	IV. Historic Period Themes:
	Subsistence Settlement  Political Demographic Religion Technology Environmental Adaption	Agriculture X Architecture, Landscape Architecture, and Community Planning Economic (Commercial and Industrial) Government/Law Military Religion Social/Educational/Cultural X Transportation
v. R	esource Type:	
	Category: <u>Structure</u>	
	Historic Environment: Rur	
	Historic Function(s) and Use(	(s): <u>Transportation -vehicular</u>
	Known Design Source: <u>na</u>	

Bridge No. 2067 MD 794 over Galloway Creek

### **HISTORIC CONTEXT**

MARYLAND COMPREHENSIVE HISTORIC PRESERVATION PLAN DATA

Geographic Organization: Western Shore

Chronological/Development Period(s): Industrial/Urban Dominance

Prehistoric/Historic Period Theme(s): Transportation

Resources Type:

Category:Structure

Historic Environment: Rural

Historic Functions(s) and Use(s): **Transportation/Road- Related** 

Known Design Source: State Roads Commission 1924 Standards

# MARYLAND INVENTORY OF Maryland Historical Trust HISTORIC PROPERTIES State Historic Sites Inventory Form

Survey No.

AA-2123

Magi No.

DOE \_\_yes \_\_no

			:		
1.	Nam	e (indicate pre	ferred name)		
histo	ric	MD 794 ovr Galloway O	treek (Bridge No. 2067)		
and/c	or common				
	Loca	ation	. ,		
stree	t & number	MD 794 over Galloway C	reek		not for publication
city, 1	town	Waysons Corner	vicinity of	congressional district	
state		Maryland	county	Anne Arundel.	
<b>3.</b>	Clas	sification			
X	gory district ouilding(s) structure site object	Ownership  X public  private  both  Public Acquisition  in process  being considered  not applicable	Status  occupied unoccupied work in progress Accessible yes: restricted X yes: unrestricted no	Present Use  agriculture commercial educational entertainment government industrial military	museum park private residence religious scientific X transportation other:
4.	Own	er of Proper	<b>ty</b> (give names a	nd mailing addresses	s of <u>all</u> owners)
name	1	State of Maryland/State	Highway Administration	1	
stree	t & number	707 N. Calvert Street		telephone no	).:
city, 1	own	Baltimore	state	and zip code Man	ryland 21202
5.	Loca	ation of Lega	I Description		
			-		
Court	nouse, regi	stry of deeds, etc.			liber
stree	t & number				folio
city, 1	own			state	
<u>6.</u>	Rep	resentation i	n Existing	Historical Surve	eys
title					
date				federal state	e county loca
epos	sitory for su	rvey records			
city, t	own			state	
				State	

7. Desc	cription			Survey No.	AA -2123
Condition excellent good fair	X deteriorated ruins unexposed	Check one unaltered altered	Check one  X original site  moved date of moved	ve	
	a summary para ents as it exis		general description of	the resource	and its

SEE ATTACHED

1400 1500 — 1600 — 1700	istoric archeolo -1499 archeolo -1599 agricultu -1699 architec -1799 art -1899 commen					landscape architecture law literature military music t philosophy politics/government		e religion science sculpture social/ humanitarian theaterX transportation other (specify)
Specific	dates		Builder/Archi	tect				
check:	Applicable Crit and/or Applicable Exce	ption:A	BC	D	<del></del> .			
	Level of Signif	icance:	national _	_state	local			
Prepare support	both a summary	paragraph o	f significa	ince and	a general s	tatement	of history a	and

SEE ATTACHED

### 9. Major Bibliographical References

Survey No.

**AA-**2123

Spero, P.A.C. & Company and Louis Berger & Associates
"Historic Bridges in Maryland; Historic Bridge Context", September 1994
State Roads Commission Report 1917-1928

10. Geo	graphical Data				
Acreage of nomina Quadrangle name UTM References	Project and a 1	Quadrangle scale			
A	Northing	Zone Easting Northing			
C		D			
Verbal boundary	description and justification				
List all states a	nd counties for properties overlapping	state or county boundaries			
state	code co	unty code			
state	code co	nty code			
11. For	n Prepared By				
name/title	Stacie Y. Webb				
organization	State Highway Administration	date February 28, 1995			
street & number	707 N. Calvert Street	telephone (410) 333-3439			
city or town	Baltimore	state Maryland			

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 supplement.

The survey and inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

return to:

Maryland Historical Trust

Shaw House

21 State Circle

Annapolis, Maryland 21401

(301) 269-2438

MARYLAND HISTORICAL TRUST DHCP/DHCD

100 COMMUNITY PLACE CROWNSVILLE, MD 21032-2023

-514-7600

Bridge No. 2067 MD 794 over Galloway Creek 7.1 Description

Bridge No. 2076 carries MD 794 (AA-55) over Galloway Creek in Anne Arundel County. MD 794 runs east-west, while Galloway Creek flows east-west. The area around the bridge is partially developed and with wetlands to the west and forested land to the north.

Bridge No. 2067 over Galloway Creek (AA-55) is a two span standard concrete slab built in 1924. Span lengths are 20' +/- and the clear roadway width is 24'-6" +/- between concrete balustrades. The abutments are approximately 10' in height and the pier is a 2' wide solid shaft. The superstructure, consisting of the slab, the roadway, and the parapet is in a deteriorated condition. The deck riding surface has many cracks and the shoulder areas have no asphalt riding surface and the south shoulder of Span No. 1 has a 6" x 10' opening along the balustrade. The concrete underdeck has heavy transverse and longitudinal cracking with heavy efflourence throughout. The west side of the deck in span # 1 has patched areas which now have random bracing and hollow sounding areas. The east side of Span #1 has spalling the full length that is 3" deep with exposed rebar. The bridge is posted at 58,000 lbs for single units, and 80,000 lbs for combination units.

This structure's second span has moved 1'-4" due to high water. The balustrades have shifted 3 1/2" to the south. It's damage was caused by Hurricane Agnes in 1972. The district repaired the damaged bridge by widening Span No. 1 with a rolled beam and replacing the misaligned balustrades on Span No. 1 with new ones lining up Span No. 2's balustrades.

The bridge had closed paneled parapets on either side which were designed using pre-1928 standards (The new parapets laid in the 1970's mimic the earlier design). The parapets on both sides of the bridge are not supporting members. They are not load bearing and rest upon the slab. These parapets are considered character defining elements (CDE's) to concrete slabs. They represent the transition between the paneled design and pierced. Beginning in 1928, Maryland used a pierced railing with a 13 open space to 1 expansion joint ratio. As discussed above the original balustrades on Span No. 1 were replaced in the 1970's although no records exist to document the exact date. Currently both parapets are misaligned at the pier. The west side is out 3/4" and the east side is out by 4". In addition both parapets are spalling on the south end.

The substructure consists of abutments, wing walls, and piers. The western abutment is in fair condition with the northwest wingwall having a horizontal crack where it meets the slab. The stream runs directly along this abutment but the member shows no signs of scour damage. The solid shaft pier is in fair condition. The outside edges show signs of water damage with the south sides having efflorescence on the surface. The east abutment is in poor condition due to both wingwalls having cracks and spalls at the connection with the slab. The north east wingwall has been sheared off at the top.

Bridge No. 2067 MD 794 over Galloway Creek 8.1 Significance

The 1994 <u>Historic Highway Bridge Context</u> describes the history of each bridge type within Maryland. The reinforced concrete slab became once of the most popular and expedient forms of small highway bridges used during the first four decades of this century. Bridge engineering treatises such as H. Grattan Tyrell's 1909 <u>Concrete Bridges and Culverts for Both Railroads and Highways</u> and J.A.L. Waddell's 1916 <u>Bridge Engineering</u> described the versatile usefulness of reinforced concrete slabs for single spans as well as mutable spans. (Spero 1994, 144)

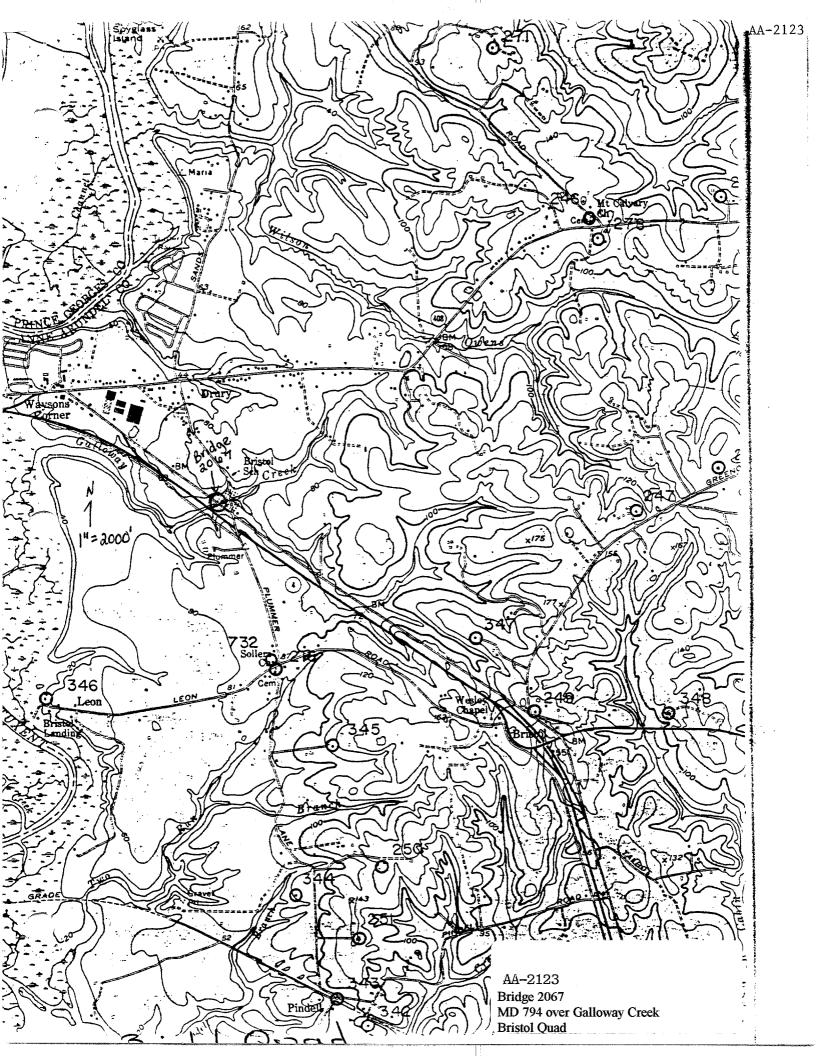
These authors realized that the Good Roads movement and the concurrent automotive revolution would require construction or reconstruction of a large number of ordinary highway bridges. The development of design and construction standards based on Tyrell, Wadell and other author's work facilitated the replacement and new design of thousands of bridges.

Standard design was began by the railroads in this country. Following their lead and using the standard texts' as a foundation, the State Road Commission of Maryland developed its first plans in 1909. The first designs were for concrete beams, slabs and girders. These first designs were followed by updates in 1912, 1919, 1920, 1924, 1030, and 1933. The updates created a full set of design standards from 6 foot culverts to multiple spans of 100 feet. This tradition continues until the present. The State Highway Administration has a two volume set of design standards covering everything from stop lights to highway bridges.

The need to increase load capacity in rural areas became more important following World War I. Increased truck traffic brought on by the war time economy and little funding due to the war created a catch-22 for the State Roads Commission. The war bolstered the economy and created a greater demand for better roads yet at the same time the state could not always meet those demands because of the building restrictions created by the war.

The use of standardized bridges allowed the road improvements to continue at a rapid and fiscally economic pace. During the decade of the twenties the road-building emphasis in Maryland was shifted to the improvement of secondary roads, the network of feeder roads that brought the people to the principal highways built before World War I. The number miles of hard surfaced roads on the state system grew from 2,000 in 1920 to 3,200 in 1930.

Although built following the first World War post construction phase, this bridge did not greatly effect the area surrounding it. The structure did not increase settlement or industry.





Inventory # <u>AA - 2123</u>
Name 2067-IMD 794 OVER GALLOWAY CREEK COUNTY/State ANNE ARUNDEL COUNTY/IMD Name of Photographer WALLY KING  Date 195
Location of Negative SHA
Description EAST APPROACH LOOKING WEST
Number 4 of 18 lof 4



Inventory # AA-2/23
Name 2067 - MD794 OVER GALOWAY CREE County/State ANNE ARMNDEL COUNTY/MD
Name of Photographer WALLY KING Date 195
Location of Negative SHA
Description WEST APPROACH LOOKING EAST

Number 10 of 18 Zof 4



Inventory # HH - 2/d 3
Name 2007-M0794 OVER GALLOWAY CREEK County/State ANNE ARUNDEL COUNTY/MD Name of Photographer WALLY KING Date 1195
Location of Negative SHA
Description South ELEVATION
Number 10 18 3 of 4



Inventory # $AA-2123$
Name 2017-MD 794 OVER GALLOWAY CREE County/State ANNE ARMNOEL COUNTY/MC Name of Photographer WALLY KING Date 1995
Location of Negative SAP
Description NORTH ELEVATION
Number 12 of 18 Yof 4